Mass, Weight, Density or Specific Gravity of Liquids



Specific gravity/density - www.MettlerToledo.com of liquids - measured with high accuracy

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Density, mass, SG of Liquids.

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The density of over 150 different liquids are listed below. While the data is useful for design, individual samples will differ. Temperature and purity will often have a marked influence.

As 1000kg of pure water @ 4°C = 1 cubic metre, those materials under 1000kg/cubic metre will float; more dense will sink ie. those materials with a specific gravity more than 1. More detailed data on water is on another page.

Pure water at 4°C (max. density) was chosen as the 'base line' for specific gravity and given the value of 1.

Some other standards set pure water at 60°F as sq = 1 so it is more correct to state the base used. The specific gravity of all other materials are compared to water as a fraction heavier or lighter density. For example, acetic acid has a specific gravity (sq) of 1.0491 while acetone has a sq of 0.785 (784.58 kg/cu.m) see table below.

As specific gravity is just a comparison, it can be applied across any units. The density of pure water is also 62.4 lbs/cu.ft (pounds per cubic foot) and if we know that a sample of ethyl alcohol has a sq of 0.785 then we can calculate that its density is 0.785 x 62.4 = 49 lbs/cu.ft.

Note, kg/cu.m divided by 16.02 = lbs/cu.ft.

kg/cu.m divided by 1,000 = g/ml (grams per millilitre) and also = kg/L (1000g = 1 kg and 1000ml = 1 Litre) [density of materials] [density of wood] [density of metals] [density of water]

Liquid	Temp	kg/cu.m	" Home page " Info on SI Units
1,1,2-Trichlorotrifluoroethane	25 C	1564.00	" <u>SI Unit Descriptions</u> " SI Derived Units
1,2,4-Trichlorobenzene	20 C	1454.00	" SI Prefixes (mega, giga)
1,4-Dioxane	20 C	1033.60	" <u>Imperial/UK Units</u> " Scientific Notation
2-Methoxyethanol	20 C	964.60	-(i.e. what is 1.00E+09)
Acetic Acid	25 C	1049.10	" <u>Metric Forum</u>
Acetone	25 C	784.58	Detail pages
Acetonitrile	20 C	782.20	" Feet to metres calculator
Alcohol, ethyl	25 C	785.06	" <u>Metres to feet calculator</u> " <u>British Thermal Units Btu</u>
Alcohol, methyl	25 C	786.51	" <u>Density of bulk materials</u>
Alcohol, propyl	25 C	799.96	" Density of liquids
Ammonia (aqua)	25 C	823.35	" <u>Specific Gravity of water</u> " <u>Density of metals</u>
Analine	25 C	1018.93	" Density of woods
Automobile oils	15 C	880 - 940	" <u>Kitchen metric</u> " <u>Medical metric</u>
Beer (varies)	10 C	1010	" Parts per million - ppm
Benzene	25 C	873.81	" Clothing metric
Benzil	25 C	1079.64	" <u>Yarn metric</u> " <u>Time</u>
Brine	15 C	1230	" <u>cc to hp</u>
Bromine	25 C	3120.40	" Paper & Envelopes
Butyric Acid	20 C	959	" <u>Gross to Nett price</u> " <u>Nett to Gross price</u>
Butane	25 C	599.09	" Add on Commission " Sheet metal swg - mm

n-Butyl Acetate	20 C	879.60
n-Butyl Alcohol	20 C	809.70
n-Butyl Chloride	20 C	886.20
Caproic acid	25 C	921.06
Carbolic acid	15 C	956.30
Carbon disulfide	25 C	1260.97
Carbon tetrachloride	25 C	1584.39
Carene	25 C	856.99
Castor oil	25 C	956.14
Chloride	25 C	1559.88
Chlorobenzene	20 C	1105.80
Chloroform	20 C	1489.20
Chloroform	25 C	1464.73
Citric acid	25 C	1659.51
Coconut oil	15 C	924.27
Cotton seed oil	15 C	925.87
Cresol	25 C	1023.58
Creosote	15 C	1066.83
Crude oil, 48° API	60 F	790
Crude oil, 40° API	60 F	825
Crude oil, 35.6° API	60 F	847
Crude oil, 32.6° API	60 F	862
Crude oil, California	60 F	915
Crude oil, Mexican	60 F	973
Crude oil, Texas	60 F	873
Cumene	25 C	860.19
Cyclohexane	20 C	778.50
Cyclopentane	20 C	745.40
Decane	25 C	726.28
Diesel fuel oil 20 to 60	15 C	820 - 950
Diethyl ether	20 C	714
o-Dichlorobenzene	20 C	1305.80
Dichloromethane	20 C	1326.00
Diethylene glycol	15 C	1120
Dichloromethane	20 C	1326.00
Dimethyl Acetamide	20 C	941.50
N,N-Dimethylformamide	20 C	948.70
Dimethyl Sulfoxide	20 C	1100.40
Dodecane	25 C	754.63
Ethane	-89 C	570.26
Ether	25 C	72.72
Ethylamine	16 C	680.78
Ethyl Acetate	20 C	900.60
Lary Modale	200	500.00

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- " Electrical wire swg awg " Steam tables (4 pages)
- " Watts, amps, volts, ohms
- " M Threads & spanners
- " Self tapping screws
- " M tap & pilot drill sizes

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Ethyl Alcohol	20 C	789.20	Ads by Gooooogle
Ethyl Ether	20 C	713.30	
Ethylene Dichloride	20 C	1253.00	<u>Density</u> Measurement
Ethylene glycol	25 C	1096.78	The industry
Fluorine refrigerant R-12	25 C	1310.95	standard for on-line density
Formaldehyde	45 C	812.14	measurement.
Formic acid 10% concentration	20 C	1025	www.mobrey.com
Formic acid 80% concentration	20 C	1221	
Freon - 11	21 C	1490	
Freon - 21	21 C	1370	<u>Liquid Filling</u> Solutions
Fuel oil	60 F	890.13	Liquid & Pasty
Furan	25 C	1416.03	Filling Systems for
Furforol	25 C	1154.93	Pails, Drums, IBC's & Totes
Gasoline, natural	60 F	711.22	www.feigeusa.com
Gasoline, Vehicle	60 F	737.22	
Gas oils	60 F	890	
Glucose	60 F	1350 - 1440	<u>Drum & Pail</u> <u>Liquid Filler</u>
Glycerin	25 C	1259.37	High accuracy - net
Glyme	20 C	869.10	weight systems. Pail denesters,
Glycerol	25 C	1126.10	lidders & sealers.
Heptane	25 C	679.50	DataScale.com
Hexane	25 C	654.83	
Hexanol	25 C	810.53	<u>Density</u>
Hexene	25 C	671.17	Measurement Measurement
Hydrazine	25 C	794.52	Online realtime process
lodine	25 C	4927.28	measurement Brix,
Ionene	25 C	932.27	Plato Deg.
Isobutyl Alcohol	20 C	801.60	Concentration, etc www.smar.com/products/
Iso-Octane	20 C	691.90	A.I.I. O
Isopropyl Alcohol	20 C	785.40	Ads by Goooooogle
Isopropyl Myristate	20 C	853.20	<u>Liquid Filling</u> <u>Machines</u>
Kerosene	60 F	817.15	Ideal for pharm/biotech
Linolenic Acid	25 C	898.64	filling: víals, bottles, or tubes: 50-400cpm
Linseed oil	25 C	929.07	www.moрену.com
Methane	-164 C	464.54	
Methanol	20 C	791.30	Density Measurement
Methyl Isoamyl Ketone	20 C	888.00	Find Exactly What You
Methyl Isobutyl Ketone	20 C	800.80	Need - Contact
Methyl n-Propyl Ketone	20 C	808.20	Suppliers & Search Catalogs
Methyl t-Butyl Ether	20 C	740.50	www.globalspec.com
N-Methylpyrrolidone	20 C	1030.40	
Methyl Ethyl Ketone (MEK)	20 C	804.90	
MEK	25 C	802.52	

B 4°11	45.0	(000 1050
Milk	15 C	1020 - 1050
Naphtha	15 C	664.77
Naphtha, wood	25 C	959.51
Napthalene	25 C	820.15
Ocimene	25 C	797.72
Octane	15 C	917.86
Olive oil	20 C	800 - 920
Oxygen (liquid)	-183 C	1140
Palmitic Acid	25 C	850.58
Pentane	20 C	626.20
Pentane	25 C	624.82
Petroleum Ether	20 C	640.00
Petrol, natural	60 F	711.22
Petrol, Vehicle	60 F	737.22
Phenol	25 C	1072.28
Phosgene	0 C	1377.59
Phytadiene	25 C	823.35
Pinene	25 C	856.99
Propane	-40 C	583.07
Propane, R-290	25 C	493.53
Propanol	25 C	804.13
Propylene Carbonate	20 C	1200.60
Propylene	25 C	514.35
n-Propyl Alcohol	20 C	803.70
Propylene glycol	25 C	965.27
Pyridine	25 C	978.73
Pyrrole	25 C	965.91
Rape seed oil	20 C	920
Resorcinol	25 C	1268.66
Rosin oil	15 C	980
Sabiname	25 C	812.14
Sea water	25 C	1025.18
Silane	25 C	717.63
Sodium Hydroxide (caustic soda)	15 C	1250
Sorbaldehyde	25 C	895.43
Soya bean oil	15 C	924 - 928
Stearic Acid	25 C	890.63
Sulphuric Acid 95% conc.	20 C	1839
Sugar solution 68 brix	15 C	1338
Sunflower oil	20 C	920
Styrene	25 C	903.44
Terpinene	25 C	847.38
Tetrahydrofuran	20 C	888.00

Mass, Weight Density of Specific Gravity of Uniquid 41-5 Filed 10/3	/31/2005 Page 5 of as	5 3 01 3
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Toluene	20 C	866.90
Toluene	25 C	862.27
Triethylamine	20 C	727.60
Trifluoroacetic Acid	20 C	1489.00
Turpentine	25 C	868.20
Water, pure (more temperatures)	4 C	1000.00
Water, sea	77 F	1021.98
Whale oil	15 C	925
o-Xylene	20 C	880.20

Go to a unit starting with abcdefghijklmnopqrstuvwy

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